

**Amendments to the Specification**

At specification page 1, replace the title of the invention with the following replacement title:

~~BLOOD TREATMENT DEVICE~~ HEMODIALYSIS DEVICE

At specification page 1, after the paragraph beginning with "[t]his is a nationalization," insert the following heading:  
BACKGROUND OF THE INVENTION

1. Field of the Invention

At specification page 1, replace the paragraph beginning with "[t]he present invention relates to" with the following replacement paragraph:

The present invention relates to the field of blood treatment devices having a blood purification element ~~according to the preamble of Claim 1~~ divided into two chambers by a semipermeable membrane, whose first chamber is part of a dialysis fluid loop and whose second chamber is part of an extracorporeal blood loop. The device has a dialysis fluid supply line for supplying fresh dialysis fluid to the first chamber and/or into the blood loop, a dialysis removal line for removing used dialysis fluid from the first chamber, a control unit for controlling the blood treatment device, an analysis unit, and at least one sensor, connected to the analysis unit, on at least one of the blood loop

or dialysis fluid loop to detect the concentration of a first material which may penetrate the semipermeable membrane. The analysis unit is capable of determining the blood purification performance L1 of the blood purification element for the first material on the basis of the measurement values of the at least one sensor.

At specification page 1, after the paragraph beginning with "[t]he present invention relates to," insert the following heading:

## 2. Description of the Prior Art

At specification page 10, after the paragraph beginning with "[t]he present invention is therefore based," insert the following heading:

### SUMMARY OF THE INVENTION

At specification page 12, after the paragraph beginning with "[t]he present invention and an exemplary," insert the following heading and new paragraph:

### BRIEF DESCRIPTION OF THE DRAWINGS

The drawing figure illustrates a hemodialysis device according to an embodiment of the present invention.

At specification page 12, before the paragraph beginning with "[t]he core of the", insert the following heading and new paragraph:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Further scope of applicability of the present invention will become apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred embodiments of the invention, are given by way of illustration only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.

At specification page 24, after the last line, insert the following new paragraph:

The invention being thus described, it will be apparent that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the invention, and all such modifications as would be recognized by one skilled in the art are intended to be included within the scope of the following claims.

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At specification page 27 (i.e., the first claims page),  
replace the heading with the following replacement heading:

~~CLAIMS~~ WHAT IS CLAIMED IS: